

Chemistry
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Philadelphia

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MSS 2/0050-01

Acc. 1988-015

C Nov. 26 1784

Materialia Medica -

Lect. 16 By Dr. Huhn -

Vegetable Astringents are
weaker and slower, ^{in their effects} act on
stomach and bowels more ^{if possible} as astringents. Veg. astringents
cannot be given in large doses in
tincture - best in substance -
Pay - long on y^e stomach in
substances have greater effects
Fossile Astringents ^{are} quick in oper-
ation & not subject to fermentation on y^e
stomach. Astring. ^{may be} combined with
purgatives ^{to prevent astringents} but not with
refrigerants & relaxing ^{meds}
as Neutral Salts &c.
Particular Astringents

Pentaplicum or Linguefoil
in solution - A decoction in
toothach (Dyscorides) & in flux Albuginis
Profluxus - An infusion used in putrid
Leucorrhoea, dysentery & abscissed hemorrhage
Torminilla ^{was used} instead of bark in
intermittents (oberr). joined with
bitters - In dysentery a decoction of torminilla
Quercus tilla has been recommended to
prevent abortion w. is from relax-
ation a cold maceration is best in
all ^{negit.} astringents by experi-
ments made in Edinburgh
Rhubarb tinct. is a weak astringent
it thickens bones but no other grass
has been used in rheumatism, but
cold bath is better in this disorder
Jaundice from obstruction of the
duct by concretions, Enolheria
Lasdunensis is better than this
or any astringent -

Griffa vesicarium cured by y^e
juices of lime rub

Astringents preserve y^e teeth &
gums increasing y^e circulation
in y^e parts.

Lapathum is used in disorders of
y^e ~~stomach~~ ^{stomach}.

(It is from insects) an
infusion with the ^{thick}
juice ^{is used} for ringworms an
infusion in ill conditioned
ulcers, taken internally & external
is very useful

Ferns are now seldom used
felix mas against worms
has been used. & in rickets and
crampy modic complaints.

Cupressus (D. Willis, ^{used it in} the
cough not success)

The Crinacough ^{aggravated} ^{light} ^{is} ⁱⁿ ^{France}

It is not from morbid matter
is epidemic & infectious

The Whooping cough is
Distinguished fr. Croup in common
gradually & fever every other day ^{Recurrent}
The cough increases wth vomiting
blackness of face & suffocation during
vomiting to be excited — see card on
nat. hist., — in full habits bleeding
vomiting, warm fermentations & anodyne
as mod. ^{as} camph. mixt^{ure} &c are to be
used & in a later stage the Bala
is to be given or ye. cup-mixt^{ure} —

Lecture 17th

Homage fruits of acerb taste are
astringent — mod. of ^{in use} floss in dysenter
or its inspissated juice to restore
the tone of the bowels, An
infusion of the leaves is a gargle in
sore throats & fauces —

Barberry ^{is given} in putrid diseases
wth Diarrhoea & dysentery & is
its pleasant & gently astringent
Piceus Hypocistis is by many astringent
Toda japon. ^{is u^s} inspissat^d juice of a
palm tree; It is usefull in relax^d
to quins, Diarrh. & assists Digestion
if dissolved in aq. 16^{oz} —

Sanguis draconis only proper
to form Alluminto pills; it is
no way powerfull of itself —
Hypericum is diuretic - its oil
is penetrating —

Indysenteries astringents are dubi-
ous; they are divided into acute & chron.
The acute dysentery is at first cramps &
the putrid symptoms & duration
about
one week —

treating it as a putrid fever with
acids, acids & anodynes specac. cum
opio. to promote diaphoresis -
In Chronic dysentery anodynes must
be gentle astringents and evacuations
Chronic dysentery affects the
bowels only or chiefly -
Plantago is a weak astringent described
in hemorrhag. confusion in the
all. The juice in corruption
it I have not experienced
used against the bite of the rattlesnake
snake - the wound ^{it is} in muscle
is seldom dangerous, if the
are sufficient taken internally in moderate
mild and of blood mortal

Solomon's Seal, the root only to
be employed - a decoction in
milk for y. piles They ^{are} not to be
suddenly stop'd unless at their
first appearance or ^{with} from relaxa-
ion - Wm from a plethora or during
the evacuation not to be checked but
astringents may be used to prevent them
Kauze. leek is mild & mucilaginous
Spin artite - fibres - carmine
emollient mucilage. enlgt. best for corals
Urtica - juice in piles hemorrhoids
extern. they inflame skin. hence used
in palsy &c
Mifetog. a weak astringent the
virtue is in the bark, it is alike from
every tree as the oak apple hazel &c
Uva Ursi in calculous complaints
it strengthens parts & changes urine
De Haen

It does not dissolve if stone -
best given in powder if bed
or often not amoyes at night
Case of a boy at Edinburgh relates -
Morue in calculi ^{reluctant} com- is thick
muculent fetid and acrid & acid is.
I think the cause of pain, tho
perhaps not always - & in this
respect and use a very fine water
~~useful~~ the sea water
should be constantly taken was used.

Rect. 10 -

Cor. bravat. et merci. are strong
astringents - ^{Injection} in prostatic any they
best cold, good in ganglions
Cor. Serranba in Exotic Inf.
Dysent. it is sudorific. I used it
with success at y^e Perry. Hesperid.

galls are ^{on trees} & are removed from numerous insects - very astringent in solution. Applications for hemorrhoids should be cold - for warmth relaxes. Some other substances are occasionally astringent - as

Acids constringe, & of course possible ^{acids} are not subject to fermentation as vegetables, of vegetables native ferment most

possible are sedative & stop those hemorrhages where astringents are improper as in fevers & after the time astringents are kept good indifferent &c -

Bitters are ~~stimulant~~ & thus astringent - so are sedatives

Balsamics are sometimes astring-
by a stimulus as in gleet
Epicarts are thought astring-
no clath meal & they're rather
absorbents Erisipilas is an affec-
tion of the rete mucosum — eat
meal on a cloth any^r better
w^o spirituous or oily applications
Astring^t increase the cohesion
simple fibres their action is not con-
rupted solids ^{times to the} are relaxed by
emollients — by rickets or by an
overstretching ^{of v. fibres} — Astring^t used in
a relaxat. of moving fibres to in-
crease from increased action of
the heart, fr. debility &c use fr
consider^t cause of hemorrh.
spec^{ies} of obstruction of any vessel
evacuation

to avoid coagulatio.

In ulcers astringents are used & called vulneraries. In particular inflammation from a weak relaxed impetus of heart & arteries is necessary in old people. Differ from ^{that} in young, so in disorders of eyes &c.

Diseases differ in different seasons climates, ages, sexes &c.

Hæmorrhage is an evacuation of pure blood from vessels of living body

Active or passive; passive external injuries & active from increased action of heart & ordinary as from the nose, uterine &c. extraordinary as from eye &c.

natural & unnatural natural called by different names ven from y^e lungs hæmoptoe &c. from the arteries —

Persons of a fair red complexion.
soft lax habit are subject to hemorrh.
involence the seasons of year as
vernal & autumnal equinox
particular age sex - suppression
on of ^{cause hemorrhages} ~~menstruation~~ - commonly
come on
after the 30th year in if hypochondriacal
Hemoptura mostly in old men

Lecture 19th

Hemorrhages sometimes come on suddenly
but generally are preceded by some sensation of weight.
nausea, distension, costiveness, ulcer
drying, pain in the back limbs &c
want of sleep. horripilation &
sometimes periodical.

Antecedent causes w.^c predispose
to plethora, are excesses, violent
passions spirit. liquors &c.

Partial causes are congestion
of humours in a particular part, occa-
sioned generally by fullness of the system.
Causes of plethora are 1st.

an increase of nourishment, the excretions
being the same, particularly animal
diet — 2^d. a diminution of the excre-
tions, w.^c nourishment is the same.

This may be from the quality of the aliment
flesh of young animals.

Opsters &c. want of exercise;

Cold & moist atmosphere

obstructing perspiration &c. so promoting
plethora.

Suppression of
usual evacuations, as blood
A diminution of body by amputation
plethora —

Partial plethora is from growth
of body in children a plethora is
^{in the} head, ^{in the} after in the lungs, an
arterial plethora common in young
& a venous in old people
respiration is obstructed in old
people hence congestions in the
passages and a wrong conformation
of the part - of y^e thorax ^{it causes congestion} in the lungs
Debility induces plethora -
a distention of particular vessels
as of y^e lungs by whooping cough -
Local stimuli as calculi
hardened feces - Piles & hemorrh.
uteri are often from hardened feces -
Hemorrh. from stimuli taken into
y^e body - from increased action ^{of the} part
as vociferation blow on instru
of music & cause hemorrhoe -

suppression & evacuations, ⁱⁿ injury
cars, ruptures &c. - we destroy
of equilibrium in w. health consists
in reversion of the blood returning to heart
through veins, by obstruction in viscera,
infarctions in liver or spleen &
spasmodic contractions of ex-
tremities occasioned by cold fear &c.
Evacuation ^{is} often continued by
custom as piles hemorrhoids &c.
Proxim. causes are ^{the} rupture
of vessels by increased circulation
[&] a topical plethora from chill
quick pulse &c.
Partial plethora occasions ^{these} sym-
ptoms by destroying ^{equilibrium} w. us one
Cure - In this we must consider
the cause of yd evacuation
& then the indications of cure
will be three viz.

Lect 20 Indications in Hemorrh.

The first indication is to diminish the
act of the arterial system & divert the blood
from the part by antiphlogistic regimen:
acids, cold water, blisters, dry cupping
2 to give a constriction to the ^{relaxed} ruptured
vessels & 3 prevent a return
by astringents; the possible astringents
are quickening operations ^{and} from ^{the} ^{use} ^{of} ^{the} ^{best} ^{of} ^{the} ^{preparations} ^{of} ^{the} ^{alkalis} ^{especially} ^{of} ^{salts} ^{of} ^{alum}.
Epistaxis best in
antiphlogistic diathesis wth salutaris.
External Application as cold wet cloths
to the neck, nuchae &c - Astring-
decoct of oak bark - To prevent a return
avoid the predisposing cause & topical
bleed cupping, blisters, veg
astringents use often (weak best)
in sup. cord. per. ^{adiv.} ^{reth.} ⁱⁿ
^{finet.} ^{rostrum}

Emollients relax the fibres
diminish the cohesion of the fluids
the fluids — warm waters. a
Decoct. of marshmallows, particul.
in inflamm. of bowels not acrimony
is very ^{useful}
It clears the teeth prevents
strangury, & simplivacy & other
inflammations. Linseed is a
good substitute for G. Arab. &c.
All emollients are nearly of the same
properties — Mouth of breath with
in abscesses — Water or Ammonia
are the ^{best}
sagorily emollients —

Hot bath is emoll. & antispas-
modic. Custom of hot bathing is very
ancient. Most useful in warm climates
not in cold climates
warm water ^{bathing} applied to the body is
simple or impregnated —
simple hot bath affects
from heat & moisture —
water dissolves mucus on the skin
& encourages perspiration —

It washes off acriminous matter ^{from the} skin,
the effects are increased by heat —
Its effects are not confined to the skin,
but is absorbed by the absorbents;
it dilutes & purifies, removes
glandular obstructions — In a
young man wth fever & diarrhoea,
by pediluvia quite relieved the symptoms
Heat of the bath should be from 80
to 90° (Fahrenheit) this promotes
gentle relaxation — If the heat
is increased it becomes effluvia,
Bathing makes the body rigid & veins
tensed — It is useful in
curing & preventing diseases, or of
skin from congestion, rigidity & struc-
ture, & diseases from obstructed per-
spiration Dysentery, Diarrhoea, scurvy
prevents contagion as the Ped-
yet tho it promotes perspiration
it disposes body greatly to cold &

Injurious in y. crispifolias, in
w. dry abscesses are best. —

Useful in contractions of the fingers
& toes, in chronic rheumatism
accompanying paralytic symptoms.
there is a peculiar sympathy be-
tween the hand & bowels & from hence
its usefulness — also in nephritis —
hysteria hypochondria & all
spasmodic disorders —

I am now to shew its useful-
ness in fevers —

Lecture 24.

The ^{ancient} ^{used} warm bathing
in fevers; it
takes off spasm, promotes sleep
& diaphoresis — In disorders of
brain & nervous system pedicuvia
very useful — not to be always
used in inflamm. disorders & some
topical inflammations; particularly
useful in deliria & nervous
fevers

By Uringitastomachus & other
ant. great use may be obtained from it,
in local diseases. Some
Mariners very thirsty, were cured
by sucking, the pines absorption
A very severe headache from
a malignant fever, (every means
tried in vain) was cured by lay-
ing salt mag. perfectly dry (at a
fire) and applied to the feet quick-
ed in a rag or tow. put to the
size of a foot. (It must first
be pulverized)

Lecture 22. Stimulants

are substances which excite the action
of living fibres, they have no action on dead bodies,
act ^{at a high temperature} directly, or indirectly on nerves.
Are mechanical; or chemical,
as heat &c. some affect particular
parts as light the eyes.

They affect the nervous system -
man has more brain y^m other
animals, we give origin to nerves ~~at the~~
base of the brain - Nerves have
their origins behind brain - Dia Ma-
ter covers nerves, as Periosteum
does the bones - ^{supported by} The
nervous energy is excited by y^e blood
Nerves are as strong as blood-
vessels do. Ganglions generate their
own energy (See Murray on the
nerves) hence partial palsies, in-
dependent of y^e brain. Stimulants are used in languors
& in low cachectic cases, in gangrene
intermittently just before the fit in
palsies from a weak influx
of nerves, in lethargy vertigo &c.
Anoplexy from ferrous not in
sanguineous ^{anoplexy} vaccination ^{in y^e} bowels
proper in this case

In headaches from relaxation
in internal parts of ^{cranium} - Stimulants
in prostrated & disordered bowels - in
hypochondriac & hysteria -
Painful in enlarged act. of heart
& arteries & hemorrhoids from
this cause - - A constant
use of opium destroys irritation
of system & tone of the bowels -

Particular Stimulants are
Melissa Balm, a weak
stimulant -

Lavender; in languors, weak-
ness & tremors of y. limbs

Majoram is ^{sectioned} cephalic and
useful in catarrhs

Hyssop & merry royal Armo-
rague, & stomachic
Peppermint in flatulencies,
carminative & stomachic -

Mustard is flagrant stimulant,
astringent, in night sweats from
weakness, after fevers it is useful
by employment of emollient seeds - Caraway

fennel, anise, coriander, angelica,
relieve y. head and remove flatulen-
cies & excite appetite - Infus. fennel
is very ^{proper} in flatulent gripings of chil-
dren

Mild Camellia is antispasmodic, given
in calculous complaints

Coliquosi - mustard, Radish ^{radish} ~~horseradish~~
mustard & c. emulsa. evacuate
by sweet - & wine - if in a security.

Mustard a spoonfull in
The powder or infusion mustard is a good
emetic - Mustard when in le-
thargy - last stage of new. fever
externally. magisms to excite
the action of ^{of} heart They ^{are} must full
in inflammations

Infusions horseradish & mustard
in dyspnoea — young horseradish
in humoral asthma

Garlic onions & leek of the
same qualities - Garlic is diuretic
& diaphoretic as a *scabiosa*
in catarrh seminis ^{it is} very useful
taken morning & evening whole
Roasted onions in maturat-
ing tumors are no more ef-
fectual than other emolagens.

Lecture 23. Stimulants

Coniferae are the *Pinus* & *Firs* &
Juniper, w^{ch} owe their ^{virtue to} turpentine.

Infusion of young pine shoots is
diuretic & diaphoretic in
erysipelas, ^{the} skin, much prefer-
able to guaiac or Sassafras.

Juniper is of warm qualities, as pine-
oil is furniger in frains of y^e stom-
ach.

Infusion of it, in ~~many~~ disorders of ^{the} breast.

Balsams also called ^{the} honey-mell
They are ^{very} viscidulous ^{they are} ~~resinous~~ ^{liquors} ~~substances~~
~~harsh~~ — Bals. Carni

is stimulant, & in suppurated quar-
ters laxative, in glands wth
inflammation hurtfull; after infla-
mation is past stimulant. injections
are usefull, B. Copia is very proper.

A long continued use of it in
Fluor albus has cured it
B. Peru. internally in dry
belly aches & in disorders of ^{the} lungs
but I doubt the efficacy of Balsams
in disorders of ^{the} breast, un-
less in asthma p^{ri}ntenta
B. Tolu is of ~~some~~ qualities.

Turpentine in obstinate
cystitis & pyelitis glyster and
otherwise. Emulsion of it in
4. miles does considerable service
by & yucca. is recommended for
the & mercuritic complaints
it should be dissolved in oil of eggs
& continued at last, emetic, in
Rheumatism gives it thus, is very
useful in the excitation from a veget.
collected by insects, its virtues
are of balsamics - externally in
ulcers to prevent gangrene
by & of Plon Benzoin used to be
rector as the dose should be 15 or
20 grains -

Wood. Ligumy uaria is diaph-
oretic formerly it was used in
venereal cysts

Sassafras is used, peruvian
it is useful in cutaneous disorders

Star Sagarilla in like cases
is stimulant & diaphoretic -
removes relaxations & pain
after mercury ^{has been} used in L. O.

Swige Laurel & liquarise an^o 3i
Aqua Clois^{co} & is to be taken every
4 hours for some weeks in L. O.

Portray ^{was used} in low nervous
fever or other disorders, no ef-
fects need be expected from it.

Aromatic ^{of a} pungent & acid
taste wth agreeable smell,
all agree in virtue.

Cinnamon is most agreeable
of cinna. is very useful in

all weaknesses & languors
after fevers; a good carm.

inative, stomachic, in flatulen-
cies

in gripes of children &

Claves more acrid & stim.

It is a fruit of a tree
like our Hickory in the
west, they use it - Used
in disorders of the stomach & bowels.
Pepper promotes the Hickory
It is powdered in a gill of
rum (or adulous remedy)
intermittents by y. country people.
Serpentaria. virgin. is a
stage of intermittents -
I make a hard sugar; I gene-
rally order it in tea or infu-
sion, particularly for nausea
& sickness &c. n. occurs in
those fevers
Ginseng is much valued
by Chinese - It is a most
good masticatory -
Cassavilla in China & for the
it is good substitute for y. bark
in fevers &c.

Lect 24

Stimulants

Bitters - Wormwood does not
 act primarily ^{nor as any bitters} on worms
 infusion of wormwood wth salt tart
 is diuretic & given wth promiscuity
 in dropsy & jaundice - externally
 Infusion wth corn. salt the prece.
 gangrene - Carduus Benedic.
 also diuretic, has been us^d on inter-
 mittents - Camomile also used
 wth more promiscuity, it is antisepti-
 c as all bitters are; very proper
 drinks in wth operation of a vomit.
 Tansey is used as antiseptic & against
 dropsy - Cori. Aurant. is more
 stimulant & antispasmodic
 Gentian & lesser centaury are
 stimulant bitters used in
 intermitt. - ulcers &
 Columba Root is strong pure
 bitter in bilious vomiting
 I have used it wth success

Cort Peru. was first discovered
to — Governor ^{of Peru} in 1640 —
brought into Europe by a Jesuit
in 1649 — it got
into Disrepute but was
again restored in 1779 & has been used
ever since — Its goodness is
known by its weight & crumbly
texture. bitter wth aroma. a deco-
ction water depositer. a red sediment
thick wth full wth requisites, — plethoric
& useful in debilities & relaxation
best in July & Aug. ʒi — Dose —
Indicated in periodical spasmod-
ic affections, wth out inflammation —
and last stage of chincough &c
(not to be used in y^e fit of spasmodic
disorders)
In gangrene from relaxation
in inflammations from weak-
ness of solids —
Principally employed in inter-
mittents. acts by its bitter

upstring & aromatic qualities
intermittent, not owing to matter,
so they're cured by astringents.
An affection of y^e nervous system
is most likely cause, for it is
cured by antispasmodics.

Regular returns of the paroxysm
account for, from custom, but the
best fit being most regular, it
cannot be owing to that.

Determine the fluids to y^e skin
by vomiting & neutrals before
giving the bark. Autumnal intermittents
are tedious; patients should drink more in
y^e cold fit; — but in y^e hot fit
give warm drinks to relieve the head, let it be
covered, to promote a diaphoresis.

If the fifth paroxysm is not
longer nor feverish, & a sediment
in the urine, these are favorable symptoms.

The nearer to the paroxysm
the bark is given the better.

after the removal of ^{the} disorder, the bark
to be given some time to prevent a
return of it, flatulent diet the dis-
order to it - it sometimes ap-
pear like Rheumatism, holic, tooth
ach, head ach, pain & swelling
of the eyes & ^{cases} Infus Bark the only medecⁿ
See, Tifoot, Bark does not
cause obstruction viscerum,
jaundice &c as has usually been
thought -

Lect 25 -

In all intermittents wth putridity
& malarial ^{to the bark is} very usefull as antiseptic,
whether usefull in continued
putrid fevers is uncertain, but
acids are more usefully employed
Infusion of bark in wine in putrid
fevers is usually given

In a very putrid case I gave
glysters of Bark w. a l. Hembricated
^{the head} w. vinegar & spirits, gave wine, &
Bark in hemorrhages w. infla-
mat. & irritation is injurious but w.
from relaxation ~~is~~ proper
in ulcers without inflammatory
diathesis, - in smallpox, w.
definitely give it immediately after
eruption, and if petechial
spots appear, give it at any
period of disease. ^{It is} Successfully em-
ployed in dropsies
in cancers or rather ill-
conditioned ulcers - Improper
in consumptions useful
in the milder in w. great re-
laxation takes place Tonics
of all sorts to be tried -

Bark is
best given in full tance Red
Bark is the best, it is stronger
& more agreeable to the other, it is
from the larger trees
A root of *Ulmus* *maritima* L. in
centrically Rad. *Ulmus* is reckoned
equal to the bark, and lays best
on y^e stomach; y^e to Zizyphus
Cafam, aromatic in flatulencies,
indigestion, catarrh, peristalsis &
may be usefully combined with steel
for the Gout
Portland's Powder is German
German ground pine, length
wort & P. A. made into an electuary
& continued for
2 years in y^e gout - Bitters have
long been used for the same purpose.
The powder stopped y^e gout the per-
son usually died apoplectic by
the disorder being thrown
into y^e vitals -
A strict regimen of much
diet in the best method of Beller

The Prox. Cause seems to
be in the nervous system

Lect. 26.

Case of y^e Gout, in London medical
Observations

A Gentleman 45 years of age,
who lived temperately, was in the spring
seized by ^{the} Gout. he lived a life of moderation
the next fit was less than usual, but in
16 months it returned & increased
for some time wth great violence in
the feet, then sudden as lightning it
seized the legs, leaving the feet entirely
free. Then it might, & then the belly and
the y^e stomach & upon vom-
iting a
green acid matter, he got imme-
diate ease; and in some months
another fit, in the like man-
ner relieved as before - In the
first attack the evacuation was
near a pint, but in the second fit.

The corrosive matter was about a
spoonfull the pit was instantly
removed - The toes were left
wth chalk-stones,

In a future fit, a discharge of gummy
matter from y^e foot gave relief
in like manner.

Dandelion, succory, Endive & lettuce
recommended in obstructⁿ viscera non
they should be taken in large doses

Cuscuta is very acid wth fresh
stimulates ^{the} stomach & promotes
digestion, used in intermittent fever
paralytic disorders &c.

Masterwort is an acid stimulating
medicines used as other stimulants.
Oxalis Acrid & stimulant.
in infusion, its diuretic & cath-
artic
Common flag is of the same
qualities.

More, ^{in large quantities} ~~antivital~~ system, and
Dyspepsia, gout & stone - It is
serviceable in weakness & languor
in hydrochondria it assists Digestion,
best cordial in languor from fever
when action of heart & arteries is
low, it restores ^{strength to the} system, prevents
coagulation of sweat, & even in deli-
rium from languor, circulation, it is to
^{be given} diluted with water; it takes off
Scurvy & strengthens the system
the weak & ascetic wines are
best - wine over there not
very subject to nervous diseases -
Malt Liquors are hurtful in
indigestion & diseases of chylo-
poetic viscera -

Stimulants obtained from ^{the} Curcuma
kingdom are few

Marigold Flies peculiarly af-
fecting urinary passages - They are
given ^{combined with} alkalies in the dropsy
They produce inflammation in esophagus

stomach and intestines, given in large
doses they must fail in nephritis,
sometimes useful in gleet & flu-
or albus. Dr. Wilson used them
combined wth bark & camphor
in chin coughs.

They are very precarious medicines,
I do not use them internally -
millereux have been much
used, not so stimulant as canthar.
no sensible effect have I seen from
Coccinella ^{the red} is an insect of S. Amer.
used for dysuria & to colour
medicines

Viper has no peculiar virtues
to entitle it to a place in our

Some general heads of substance,
used as stimulants -

nutritive by strength food &
increasing action ^{of the} heart and arteries.

Astringents may be used for the
same purpose. ^{occasionally}
Sedatives will be treated of hereafter.
Acids are stimulant, & so are them.

Lecture 27.th

Cold Bath stimulates & strengthens
the system, The custom is very ancient
in Italy & ^{other parts} Russians cut holes in
ice & go in. Hippocrates
first used it in medicine.

Antoniurus cured Augustus of hypo-
chondria. Cold bathing - I am to enquire

- 1 What water is to be used.
- 2 What manner it operates -
- 3 What diseases indicate it.

1. What water — same
choose sea water w^{ch} changes
skin & stimulates, but cold.
Spring or purrps water is best
and coldest where a pure cold bath is
indicated.
And Used either by jumping in it
or by y^e shower-bath, from
a higher or lower place —
Act by constricting extremities, & fluids
are impelled to interior parts, & increase
action of heart & arteries, & ^{the} ~~the~~ ^{the} muscular parts promote activity &c
we should stay a very short
time in y^e bath, we should be
moderately warm w^{ch} we go in.

2. Mode of operation —
The body is divided into simple fibres
Solida viva, or mus. fibres & fluids
Cold Bath acts on y^e simple fibres
or on the moving fibres —

Too great relaxation or tension
of fibres produces disease

Muscular system has a certain degree of
tension, w: altered by fluids -

Moving fibres as arteries have
tension depend on ^{the} blood, hence
bleeding particularly at deliquium
takes off tension -

Contractility in y: living body
depends on elasticity of fibres & in-
flux of fluids

Tension of stomach is commu-
nicated all over y: system w: it is
relaxed, the whole system is languid

Hence y: effect of ward of spirit
as of rum, wine, eating at a
particular time &c. It has a
particular connection w: super-

ficies - (White on nerv.
& vital motion) Tension of y:
system is increased by a nervous

influx from anger &c -
same passions, as fear, diminish the
strength - Warm Baths relaxes
tensity increases sensibility
& irritability & produces nervous
diseases - (V. Sweeten in a
nervous irritation & laxity of habit
ordered of warmth from head to
foot Cold Bath gives tension
to *viscera viva* by increase of
nervous influx -

Cold Bath gives vigour &
alacrity to the studious & sedentary

3 Cold Bath is useful for sterility in
men & all diseases from
mobility & irritability -

Hypochondr. ^{attacks} rigid habits
in cold climates not obstructions
& chiopoeitic venereal, ^{in young} cold bath
Epilepsy in children &c are
from debility use cold bath
Rages are from want of nerves

influen

A Boy in Palsy of y^e lower extrem.
was cured by being placed under a
mill fall

Madness is cured by cold bath-
Intermittents ^{are} from inertia of y^e
overworn power & afraid of super-
fluities nothing seems so likely to prev-
ent it as cold bathing (V. Swi.)

He recommended in violent fevers by
Galen De Haem. Sifot & V.

Indians in y^e country heat
themselves in cabins, then plunge
into the river & then again to
their hot cabins to sweat in
fevers

He recommended Kroyer & others in
Chronic Headaches: Chronic
Rheum. also cured by N, when
mat^r affects head teeth &c.
It has been used

Used in arthritis very long,
should not be used in the Rheu-
ism but at other times to
prevent it.

Lecture 28th

The Cold Bath is used at success
in calculous complaints of kidneys
(Aurelianus) use only in the sum-
mer; we ought when we give
a medicine to know well y. trans-
fer of ^{the} operation of the medicine
a relaxation of the kidneys is cause of
calculi. or at least the
irritation produces a relaxation.
Cold bath takes off irritability
& gives tone to y. system.
The bladder is relaxed by retention
of the urine in nocturnal
pollutions (as is from relaxation)
gleet from strain, use cold
bathing.

Chronic colic, & obstinate consti-
pation ^{are} cured by it. It is best preserva-
tive against cold, it prevents &
cures most diseases of children.

Dr. Harvie, has theory of acidity of stomach
too general in children & weak
stomach, or laxity of solids view
more generally ^{the} cause of the disorders
& even of acidity itself in child.
The roots being from debility, cold
bathing is best treatment.

From the indications you may find,
where cold bathing is necessary -

In all cases of rigidity &
tension it is injurious, In consump-
tion it will produce haemoptoe
cases, ^{supposed consumption} where it has been used have
been mistaken, being hypo-
chondriac

The symptoms ^{are} sometimes similar
only in hypoch. the symptoms
are spasmodic & alternate
or other, continual —

Cold bath hurtful in every in-
flammation w: generally occurs in
plethoric sanguine temperam-
ents where there might be danger of
rupturing the vessels —

Decatases, are, which diminish mo-
bility of system & elasticity moving fibres.

v. Bullen

Opium is a medicine of great utility
great disputes have arisen
w: regard to it which affects
whether it rarifies the blood or acts
primarily on nervous system, &
whether it excites or diminishes
the action of the heart and arteries

(Travice) If we consider the
small dose of opium, its effects
in rarifying blood w: is from
25 to 30 lb. is very small —

8 If one grain of opij rarifiesy blood to
what a bulk will it be. *undergr. etc.*

(Dr. & White & Mirro) ~~2~~

Opium acts immediately on nervous system without affecting ^{the} humours, yet the humours may be secondarily affected by it.

Lecture 29th

Whether Gium excites the action of
the heart and arteries, or has ^{any} other
effect? Fralix. - Maller &c
are of the former opinion, White & Murres
of the latter. - The Peristaltic ^{motion} of the stomach

it is Opium in particular
cases as nervous affections, anxiety,
fatulency &c may increase

the pulse, but experiments
should be made on healthy bodies
to determine the virtue of opium
in some diseases of bowels. It
moves laxative yet no one
calls opium a purgative —

It accumulates the fluids in
the larger vessels & lessens ^{circulation} in the
relaxed vessels. Hence it lessens
the ^{natural} heat. — In the use of opium
the thermometer being applied
the I felt — Opium produces
cheerfulness, respiration, &
alleviates pain, resolves
friction. — causes a sense of
fullness, procures sleep and
quietude of mind. The
lower extremities are more
affected by it. In the upper the
circulation being weaker. — It
produces cheerfulness by taking
off disagreeable sensations

in some constitutions, instead
of sleep it produces fullness.
some preparations in some con-
stitutions have different effects from
other preparations - In some cases
full doses are best, while in
others the smaller, repeated, just
better
by narrowing the force. pain is
less fortitude

It renders pulse slower by di-
minishing action of heart & arteries -
fullness of pulse is owing to relaxa-
tion of the vessels & accumulation of fluids & by
making the circulation slower, it less-
ens the animal heat

It diminishes the secretions all but y.
insensible perspiration by taking
off the resistance at the surface
& relaxing y. vessels of skin & pro-
moting corruption of mucus while y.
irritation & sensibility of y. other

secretory organs were pained
Opium in Catarrhs is useful
by taking off irritation ^{from the} ~~from the~~
produces costiveness by taking
off the irritation from bile &c.

In cholera, & other diseases where
bile is too copious Opium, ^{is} indicated
as diminishing quantity of y^e bile
renders the ~~even~~ respiration
slowed by taking off y^e stimulus
from the lungs.

Opium tends the blood vessels, particu-
larly ^{the} ~~the~~ by removing the irritation
of the ^{of the} ~~of the~~ vessels from flows respi-
ration hence a plethora about
the head prompts nearness to y^e lungs.

Difficulty of respiration from y^e muc-
us be^g kept in the trachea, by ^{its} ~~its~~ ^{impos-} ~~impos-~~
sibility, hence in pulmonary Disord.
it should be combined with

It promotes sleep by removing
the irritation fr. external objects &
compressing the mind, the manner
of this operation is inexplicable
after the operation. a sense of
weakness & dullness remain
w. go off gradually

Lecture 30th

Opium used in ^{pain} is from
inflammatory distention, spasm, or irrit.
w. from inflammatory distention, opium
is a very uncertain medicine, unless
to remove irritation then combined
w. quills or Arctium preparations
In acute rheumatism, ^{it is} eruptions;
in toothache w. is ^{very} useful. In
the latter stage of ^{it} is
useful; it promotes suppura-
tion, giving ease & suffering
nature to go her own work

^{Spasmodic}
Opium on pain, Inflatilities
Colera & Diarrhoea Opium
to give ease, also in the bilious
colic w^c is ^{Spasmodic}; pur-
gative also, ^{blee} used to prevent consti-
pation after ^{has given ease} opium, in spasmodic
affections of stomach, & of y^e
uterus w^c is either at the menstrual per-
iod, at y^e appearance of lochia, or
in child birth; in grinding pain
after birth, if not from in-
jury in ^{delivery} Opium is useful.

In false pains & threatened
miscarriage give Opium unless
a flooding makes delivery necessary
In menstrues use Emollients
& rubifications, such as ginow infu-
sions & opium to diminish the
fermentation of pain

In tetanus, Lock jaws &c from
winding of nerve give Opium
largely

(Cases in London Med. Essays) where
the part can be amputated
no more should be lost - Opium in
large quantities -

Asthma is from a constriction
or a discharge of muscles from lungs
if the first case Opium is very useful,
combined with Secac. & pills
used in headache - if from a
disordered stomach, Emetics &c.
if from weakness use bark, water
if from nervous complaint, Opium
For Pain from irritation
Opium is only palliative as in Cancer
venereal nocturnal pains, in
coughs of the last stage of consump-
tion, it gives ease
has been employed in inter-
mittents half an hour
before the fit, ^{with advantage} and acts as anti-
spasmodic; in nervous fever
to give quietus at night -

In the Dysentery & Diarrhea
after evacuations, Opium ^{is} useful
especially wth Meac. to prom-
ote Diaphoresis -

Glauc. Sal. in small & re-
peated doses given every
Day & Opium, at night, and
if gripping pains ^{are} violent
Castor Oil is usefully joined
to Opium or with the laxatives.

In Catarrh from irritation
wth discharge of thin acrimonious
humors Opium is to be given.

In the rough accompanying mea-
sles (w^{ch} is from irritation
of the lining) bleeding, ^{Disorder} of the heart
& arteries are to be used, In
Hemorrhages by diminishing
action of heart and arteries. Pru-
um is useful particularly if ^{the} evac-
uation is from brain.

4th hemorrh. ^{hemorrh.}
If inflamⁿ accompanies, Opium
gives only a temporary relief - also
if from Debility Opium w^d do little good
Opium is lately used as an an-
tispasmodic, - discovered by a British
officer at N. York by accident -
They begin wth doses of 100 grs.
& increase to 12 or more daily -
in watery solution as injections
I have used it in several
cases & wth advantage, I give
it often wth out any addition
& sometimes in old cases I con-
tinue correct solution, or Calom.
with it -
Opium is infused in wine of Perry
3rd effects soonest ^{obtained} from solution
if it is long continued the
dose must be increased
Acids are the best antidote
to opium - corrosive also to
be used to prevent its ill effects.

Lect. 31-

Cicuta. There ^{are} several plants called ^{ta} cicuta
 Acornium. or Cicuta of Storch is
 the species here intended, which is
 used internally & extern. in fevers &
 Cancers of the Scrophulous & venereal kind
 Cancer is (according to a Swedish writer)
 either Genuin or fungosa or scroph-
ulosa Genuin. begins as a small hard
 indolent tumour; at first firm ^{then}
 then ^{becomes} rough and increasing in
 bulk of area to the largeness of
 an egg. which at first is moveable
 then fixed — when they become
 lips are hard and rough, & are
 various ^{discharge} Mercurials emollient
 & do hurt, then argious in turn
 or at alterations of weather, at mercur.
 in various if seated high about
 of pectoral muscle most dangerous

In this species, Cicuta is
worthfull & emreage, pain —

In cancers of mouth sometimes it
produces salivation as mercury —
after the glands of ammount are af-
fected no cure can be made,
unless the glands be exterminated w^{ch} is
ruined by y^e subclavian artery
Cancers are brought on sometimes from
sudden passions of mind producing
obstructions in secretory vessels of organ,
w^{ch} stagnation of fluids acquire y^e lacrim-
onious nature of a cancer, this acid
matter did not creexit in y^e blood

Cancer germis. is at first
local and may be extirpated by the
knife, or some medicine such as
Guy's powder — No root should
be left — Scrophulous Cancer
is not local —

Cancer Fringosa begins as a
small ^{but} grows quick and becomes
spongy

In 5 or 10 months it grows to the
bulk of a man's head, & ^{suppurating} from the top
head of a canister was broke,
wth a very great discharge, it
ruffs up into heights in dif-
ferent places -
[a] case, ^{beginning} from a purulent pain
the tumor of the
bulk of a pea; the hemorrhoids
for some weeks gave ease, but it broke
having increased to monstrous size &
of a warty appearance, he vomited
blood, and on dissection, we found her
Intestines indurated the spleen large
[a] case of a patient from her not fruitfully
the child there occurred a
swelling of the thoracic muscle, wth
appearance like the ears & the pain ex-
tending to the arm. A hemorrhoid was
used without advantage shoot-
ing from the neck of the head & arm &
sucked by suckers we caus-
ed great pain, a ferrous matter was
discharged from the breasts - & the recovery

Toads have been ^{used} in like manner,
put in a fine lawn bag & applied
to the sore, unless confined in the bag
they will not take hold of the ^{Ulcers}.
Scrophulous Cancers owe ^{their} origin
to a vitious & peculiar constitution -

Scrophulous ^{cancer} are not yt. indurated of
glands in ^{the} ^{body}. From teething colds
not yt. glandular ^{at} hardness ^{or} suppuration
nor glandular hardness in consump-
tion nor from venery.

But a hard tumour glandularium
of white red and blue colour, w. resist
rare. w. red or blue ^{white} streaks
w. w. ^{white} nothing, but if knife
will extirpate. In venereal Cancer
a long course of mercury in term
externally to alter the habit
will remove yt. disorder
In first ^{appearance} only to be distin-
guished by the ^{color} but want of pain
blue red colour after some
time

by its springing up in different spots,
never owing to passion, & is more
usual in good constitutions —
fallow countenance, & redness of
y. eyes, indurated lines in the
glands of y. arm, the green & so
some of y. turneridge charge a
whitish matter & heat, others
are red & fetid ichorous matter.
Mercurial plaster, mercury
internally at Corros. sublim.
long continued & in large doses
usually cure it. solution of sublim.
used externally w. advantage
here ~~only~~ ^{mercur} is usefull &
properly combined w. barko —

Lecture 32

Cancers of the breast are always from ^{the} fir-
at first they may be eradicated by the knife -
all other swellings from milk, venery
and other causes ^{not} cancers.

Concretions from milk seldom produce
cancers, Indurations from the
milk to be treated with emollients

Lethargy or slumber, ⁱⁿ women & ⁱⁿ suckle
their own children

When firmly formed, they immediately
are to be extirpated - They are to be
prevented by avoiding sudden passions
& every thing irritating the nerves, by gen-
eral exercise, fresh air &c.

Open cancers are infectious -
The nodes w: such cancers soon
die - From the conformation of ^{the} breasts
and the temperam^t of women, we ac-
count for cancers in women's breasts
often than men

Cancers affect the blood from
old ill treated local cancers -
Venereal forces distilling from can-
cers they being ulcers in the
cuticle known by white matter

2. Scrophulous venereal are hard indolent
tumours, gangrenous, ^{venereal} tumors are
known by softness, by a black brown
colored skin about edges is hard
ered & smooth, best application
is a solution of corros. subl.

another kind begins hard
tumor or greivous tumor with
pain & swelling ^{part to about it} then ulcer. solut.
to be used internally & external
Cancer of y. tongue very red & hard
w/ varicose foreskins

Case - A tumor of the tongue w/ tooth
growth tumor soft & ^{grows} rapidly
cured by calomel. It was cured
w/ but enflamed in black corros.

Ulcers of tongue & lips have been
cured by mercury & bark

^{The} Cancer ^{is} always coming on slowly; they
at first appear like warts & are
only & feebly very hard, rough
sharped edges no white matter
discharged but a thin acrimonious
humour

Venerical fores proff up quickly,
great fetid discharge when they
break

Covers a part or y^e whole ulcer
wth calomel 24 hours if the fore
put on a better appearance
it is venerical & vice versa
ver^{erous} Cancer to be cured by
mercury Landacorn, cicuta

Asyric gr. 10. solina Rhen water
a spoonful 3 times a day wth milk
and mucilaginous substances

when one merit is taken, up
another, first is good, & is used in like
manner, thus it is to be a powerful
medicine, but it brings on para-
lytic affections eyes & other
parts. — Guy's powder is not
always a proper remedy &
where the knife can be used
no thing is so proper.

Cancers are palliated by antihist
glisters & oniatas — where y^e can-
cer is curable by arsenic, i.e.
in Cancer Vermiform. it is
best in solution, and should be
used with the greatest caution.

Lecture 33

Belladonna is very virulent, it
has been used in decoction
against cancers, beginning wth
one spoonfull for a dose

Cafe (see Gullen's Mat. Med)
Internal remedies are only useful
in cancer scirrhous &c.

Nyctagynus or henbane pro-
duces narcotic effects and paraly-
sis. Its action is in milk & in pains
of the abdomen & spasms.

Nicotiana is nauseating & stimulant &
narcotic; by smoking toba-
co, the cholera has been cured; its
chief use is by glyster in
flatulences & spasmodic affections
of the abdomen - its internal use
is very uncertain; the syrup is used in
catarrhs.

Saururus cernuus poisonous to most
animals & also to man.

Tea & Coffee — *Tea* partly
early in life is sedative & narcotic
in some constitutions it produces

spasms by relaxing the nervous
system — Coffee from its manner of ^{its} prepa-
ration contains an empyreumatic
oil and is antispasmodic —
Diseases are changed from inflam-
matory to the nervous, since ^{the} intro-
duction of tea & coffee —

Saffron in doses of ʒi or ʒss
produces some effects, it raises
the spirits — kept used
in the ^{armpits} of children, apply-
ed to the navel in form of poultice
Spasms is constriction, usu-
ally involuntary —

Antispasmodics indicated in
all spasmodic diseases, as
Hysteria — w. irritates calm
off all diseases, affecting body
& mind —

Disease arises from ^{an} affection of the
nervous system & a spasmodic irritation of
bowels & chylonic system
—

of those most officially affected are
 some, volatile constitutions,
 wth great mobility, ^{and} impatient
 who are of fair complexions, &
 delicate habits, and who have
 large mercurial humors, & who
 live indolent; mostly from
 impurity to the refraction of y^e men-
 ses, carriers of mercurial
 often affected wth them.

sugar passions, strong flavor,
 brights, acute disease, fluor
 album & every thing it irrit
 ates, generous system occasions
 "It is a symptom of

My fterea are languor, ^{circu-}
mation ^{of} sight, ^{abundant} ^{sluggish} ^{quantity of}
of face large, ^{limpid} ^{white}
hair in the back of a horse.

rising in a horrid anxiety
fluttering of heart, constriction
of the ^{throat} ~~throat~~ ^{larynx} and pulse falls

length of patient first
into a sleep or delirium
sometimes distortions, convulsions
stupors, rumbling belly &
sauttering off speech, imaginary
forms appear before the eyes
rigors & coldness of extremities
fixed or wandering amacul
or dull pain of head, cardiac
gias, vomiting, some have
diarrhea, suppression of urine &

Lecture 34.

Hysteria sometimes returns periodical-
ly, sometimes appears on last a few min-
utes at other times it lasts hours, days
sometimes perpetual, and especially
about menstruation it lays
foundation for many disorders. It is
distinct from Hypochondria
this usually attacks men

of melancholy rigid habits -
at full veins; it comes on slowly;
most common in old age, &
in those subjects. piles -
the moveable ball ^{felt by hysterical subjects} never ex-
ists. ^{there is} the constriction of a common
axis of hysteria - In hypochondria the
mind is steady, at an aversion to
company & dullness -

affections of the alimentary canal, of the
stomach & uterus are often
mistaken for hysteria -

Danger is accord to affections of
vital functions. When it
continues long, & occasionally obstructed,
& it is difficult to cure

Indications of cure are 1. to avoid
occasional causes. 2. to relieve
the symptoms during paroxysm
3. prevent a relapse

In the paroxysm, the symptoms
urged & from obstructed
menstruation, &c. &c. w. might
be in small quantities -
In perturbation of mind, sedatives
& antispasmodics - in coma give
nervines & stimulants
to the externally apply
a fomentation of warm water, or
tobacco, and stimulating glysters
warm fomentations then after
stimulatives - internally opium
Camphor & vol. alk.

Cordials after the fit to refresh
the patient

To prevent a return, a non-
ripping diet of easy digestion -
avoiding acrid & flatulent substances
use moderate exercise in cool
dry pure air, guard a-
gainst sudden transitions of heat &
cold - riding & walking
in cool dry air

changes of objects, of climate & air
mind kept cheerful, are all useful
natural & habitual exertions & secre-
tions are to be well attended to.

Narcotics antispasmodics &
astringents & tonics are used. The
effects of the two first are soon over
& tonics are now to be relied on
of Decades Opium, Cast & particular
useful in irritable habits.

Of antispasmodics. Vol. Altho. post-
sums, small fermentations &
decreased sensibility, irritability & mobility
of the alimentary canal & usually
accompanied, or owing to debi-
lity - & tonics remove these symp-
toms, & exert the action of moving fibres
in sanguineous temperant. & visceral
obstructions, requires caution in
administering tonics, as bark
steel bitters Colic &c
particular constitutions
require different medicines

error sometimes cures it —
Sometimes after all our en-
deavours, we must trust to diet
change & air &c —

It is spontaneously cured by a change
of the constitution, by matrimony &c.

Lecture 35.

What I have said on ^{hysteria} will apply
to nervous dyspepsia generally —
A *Asa fetida* diuretic & diaphoretic
dose is from 10 to 15 grains ⁱⁿ substance.
a solution in water is the best pre-
paration; or dyspepsia, flatulencies,
& spasmodic colics, by glyster
recommended cathart. ferrilis
as a diaphoretic

this disease is from obstructed
secretions, especially, nervous
Gargle for the same purpose
frictions flannel shirts &c
Asa fetida & *verruca*

& emmenagogue; it is obtained from
arbutin in Japan -

Gum ammoniac is not so antispas-
modic, but more pectoral

Vol. alk. is antispasmodic
useful in last stage of mercurial fevers.

Colus of ginger, camphor, vel cum
tart. emet. pro re nata -

It produces no great stimulus
to y. blood - (Purging has
proven) it is not specific.

in last stage of inflammatory fevers
Volat. alk. is useful In indi-

gestions, wandering gout &c

Castor, no benefit by com-

bining it wth opiate, given by it

only it acts as opiate. but weak

must be antispasmodic

Other is antispasmodic & sed-

den in its operation.

Oleum succum Britisk & Harlan

oil in spasms & in statu

lencies -

Camphor - its virtues
are diaphoretic, volatile, & penetrant,
& inflammator^y nature - hearts & foun-
ces injected into the ^{re}thra it produces
ardor & urine, applied to an
injuriant, it ^{causes} pain - some say it
is refrigerant, others say stim^{ulant}.
In Murris's experience upon frogs,
it lessened action of heart, & ^{the} ~~circulation~~
circulation of blood.
Hoffman ^{relates that} 3 grs did not increase
circulation, but produced cold
& sleep -

Lecture 36th

Camph 30 gr. in Colu^{re} produced delirium
in a horse vomiting ^{the patient} & grew very weak
pulse slow, wth giving at last he fell a-
sleep

Camphor seems febrile, does not
increase heat of body, it is antispasmodic
diminishing

Hoffman reckons blood is rarified by
it

It weakens the hydroptic vis-
cera & moves penetrating; Diaphoret-
ic & antispasmodic quality relaxing
the skin; where stimuli are indi-
cated camphor will not answer as
it lessens action of heart & arteries
It prevents putrefaction in animal
substances, Its chief action is on
the nerves of the stomach from whence it is
communicated over the system
Camphor in ^{useful} dysentery where spasm
occurs, in epilepsy, in fever it
can only act as antispasmodic
in nervous fever, in inflammation
of skin, erysipelas it stops hemor-
rhages, removes nocturnal pollution
I use it from 5 to 10 gr. in a bol. & comp. ref.
in nervous fever - in last stage of
dysentery wth theriac

Lect 37th

Medicines w^{ch} act on fluids -
for a particular acct. of fluids see
Cullen's Materia Medica -

There are certain diseases in w^{ch}
blood is not only vitiated but it is
mainly - & medicines of a kind
considerably change the blood & hum.
only a course of animal food
putrid diseases are brought on -
Attenuant^g & such substances as
destroy viscosity of fluid

Water internally excites & irritates
& removes spasms & promotes
perspiration & checks vomiting
in low putrid & nervous fevers
it is inflamm^y useful

Warm Water relaxes and opens
bowels dilutes viscosity^{in y^e} bowels
promotes urine & prevents
obstructions viscerum - in fevers
particularly warm

I have ordered of carbonated ^{aerated} water ^{every} ~~morning~~ ^{morning}
in indigestion, flatulency & w. advantage
It is perhaps only ^{an} attenuant
alkali from dissolving food w. out of
of body. have been thought atten-
but the quantity & change in ^{water} prima
ria hinder its effect this way.
Lime water acts as a gentle astringent
corrects acities ^{in the} stomach, strengthens
urinary vessels. in chronic
dysentery where there are ulcers
the in ferophuta, chronic low
intermittents, in ulcers it is given
Lime water with castile soap in
eruptions or w. excitation in
erisipelas -

Soap is reckoned attenuant & deterg.
liable to decomposition in y. stom.
dissolved in water ^{& given} against poison
in infections & obstruct. hydropo-
sycerat in dysentery & hile made
into an emulsion w. yolks of eggs -

is a very good application
Yaspisolved in milk, in indurated
cancer of breasts from milk & in
disorders of joints. —

Infusoria (Cutters) are
demulcents. *Q. arabic* in acids
refluxions of breasts, dysentery &
hemorrhages from irritation
Q. Fragacanth is of some use
Isthicollamore nutrient & glut
now

Marsh-mallows, Linseed &
are all of y^e same quality & sell
Antacida — no acidity is
beyond the stomach & are
in y^e blood
as forbersts destroy acidity Mag
nests eyes — &c?

Evbrine irritate y^e membrane
of nostrils & fauces. Those used
are turbinaria. Asarum & Tobac
may be useful in headache
toothaches &c but are seldom
applied in y^e present practice.

The effects of it are clearly seen
in use of tobacco.

Astoria is more active in tobacco, & sometimes used in disorders of the
ears &c in a spasm their
use is improper.

Tobacco is narcotic & injurious
to some constitutions, but whether
the evacuation of saliva is hurtful
as some have supposed I am un-
certain, for as more is discharged
so more is secreted in its place.

Lecture 30th

Expectorants these discharge mucus
from my lungs, ^{& breast} it is done by stim-
ulants & antispasmodics -

Stimulant pectorals are given by
serry royal, elecampane, Spirits
disperse ^{of the} tongue ~~of~~ inflammation
obstruction & spasm of Trachea.

inflammation of pleurae, consumption
antiphlogistic regimen best cover
of treatment
asthma & wine occasionally
milk diet fresh air &c
The cough relieved by mucilage
of sweetened honey & marshmallows

Obstructions are 1. Scrophulous
known by habit of the patient
cicuta mercury, min. water
are to be used

2. Nephritic obstructions in asthma
squirils a safe & d. & antispas-
modics
3. Spasmodic obstructions use opium
camell. vel artim. R. 3. Acet
seill - 34 ag. bism - 2. 9. 60
sacchar. s. hauff

Diagogues secrete the saliva &
all solid substances & are great salivators
mercury is principal diagogue
its stimulus on all y. secre-
tory organs particularly salivary glands
the dried preparation acts on y. stom-
ach & more mild on the bowels

acts
(united) on the salivary glands
by some peculiar chemical
relation — vapour of quicksilver
acting on nerves, and produces torpor
& maffy — ~~to~~

Lesions of two species. 1. Gonorrhea
w^c is an intire local disease,
Fordice cured it radically by a solut.
fixed alkali. it should be weakly
urinated ~~used~~ after infection
we usually employ the antiphlog-
istic regimen gentle laxation,
with fomentations — ~~injections of~~
mercur. urig.^t cum ol. olive. Topical
bleedings — wⁿ inflammⁿ is removed
afterwards may be ^{with alk.} used as solut.
Chordee relieved by Camkentr-
w^c opium — Use no injections
I give sal. gluc. constant em-
in small ~~quantities~~
Opium to procure rest & dine
regimen

A confirmed Lues may last
in the system for years conceals
suppurating
buboes, w. paining head & rest-
lessness phagedenic ulcers
excrescences

Mercury is the ^{chief} remedy
milder preparat. are best to procure
salivation - Corrosive subl. w. opinion
determining of skin - best anti-
dote to fullness is alkaly. w.
decomposes it
salivation to be avoided by deter-
mining ^{to the} skin, by warmth for irritation &
buboes are disused by mere fric-
tion applied below w. part
Some plants as Lobelia will
cause it, wild ramunculus - Opium

Lect 39

Mercurius ^{the} is recommended for bite of
the mad dog, & should be applied im-
mediately & continued till a salivat-
ion is brought on -

Mercur. is employed in all obstructions, sores, scurvy and in every -
soul ulcers, in obstructions of
viscera chills mercury has been used but
it is only act by its weight
Yaws, com. in high lands of Scotland and Africa
Symptoms are throat; a difficult swallow
swelling of glands - eruption back
groin & genital, the mouth &
lancet affected pain & ulceration.
sometimes infectious -
treatment same as venereal
disease by mercury internally
& externally -
Slaves are peculiar to children under
12 years of good robust habits -
It begins slow wth languor & ^{weak} ~~languor~~
like cold, the breathing is quick
& laborious pulse soft & irregu.
speech is difficult or obstructed -
a particular wheezing, some-
times ~~flushing~~ of face &c

The cause is a protomatural mucous
membrane in the trachea from secre-
tion of mucus w^h abounds in young
people - (Distinguished from

Sparmodic diseases of lungs ^{which} come
on suddenly & do not change the
voice, no secretion of mucus.

Sparmodic ^{cases} are not soon or often
mortal & yet to bleed, blisters
Antispasmodics

Preceding cause of which is a
most atrocious & gross habit -
This is divided into two stages & is always
dangerous particularly 2^d stage
first favorable prognosis is ever
easy & stronger cough

Bleeding may palliate - some
blisters - vomits are not to be
depended on - purgatives & especi-
ally calomel w^h affects glands is
most to be trusted

I gave 20gr in 16 hours to a
child of one year old

in a large quantity of calomel is
then a strong emetic is to be given.

Emetics (Cullen)

Antimonial preparations. Crude
ars. ^{tim.} contains two parts, a regulus of sulph.
The prepar^{ns} are all of a like nature

Crude Antimony may be active
from acid ^{ing.} stomach & if used should
be well purged.

Vinum Antim. very uncertain.

Tartar emetic is more certain.

Antimonial lact^s or y^e solids by
y^e stimulating stomach & other
parts. Tartar given in a pill so better
purges more readily y^e in solid.
It is also diaphoret. & sudorif.
sometimes diuretic

St
line

and
of
the

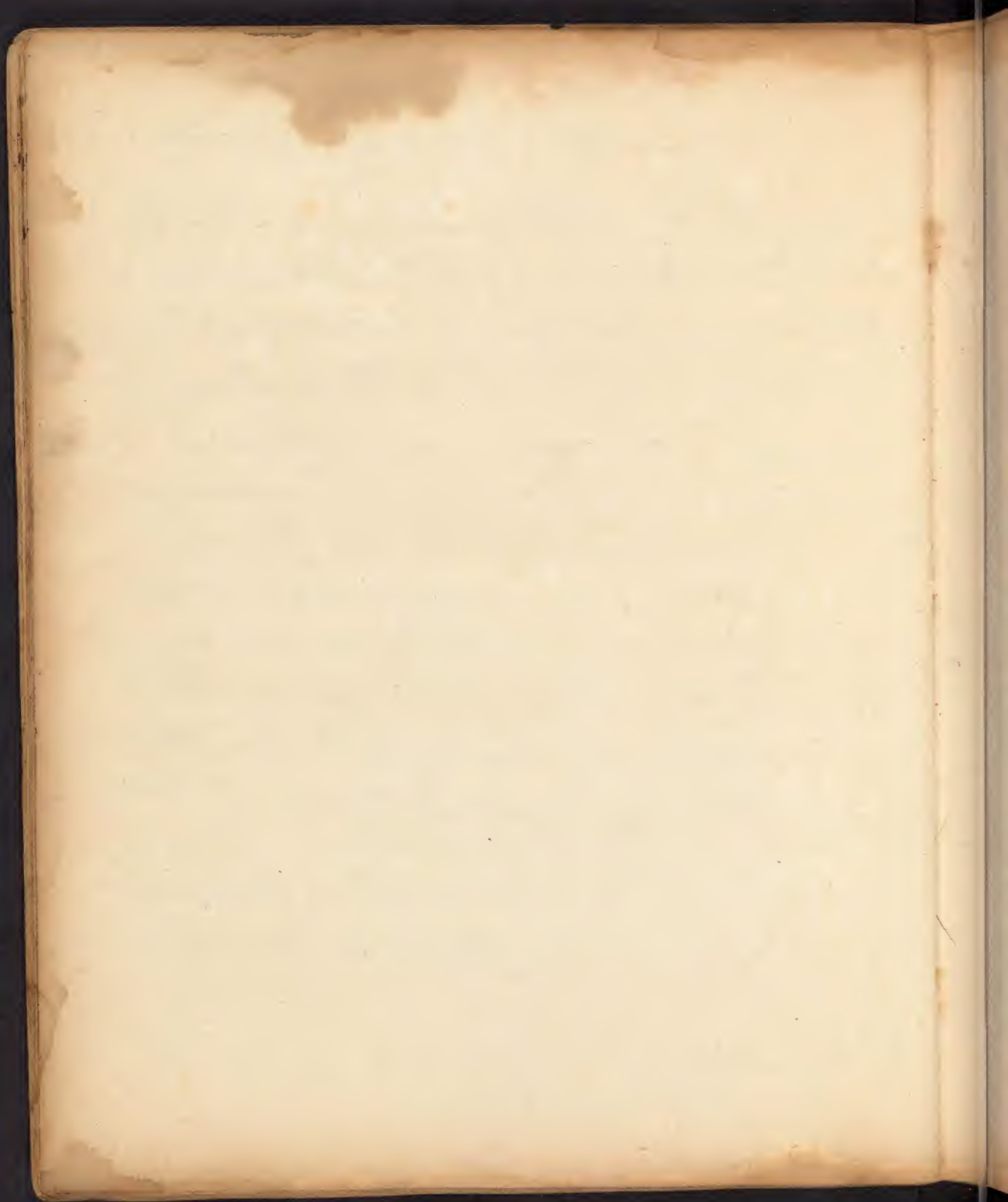
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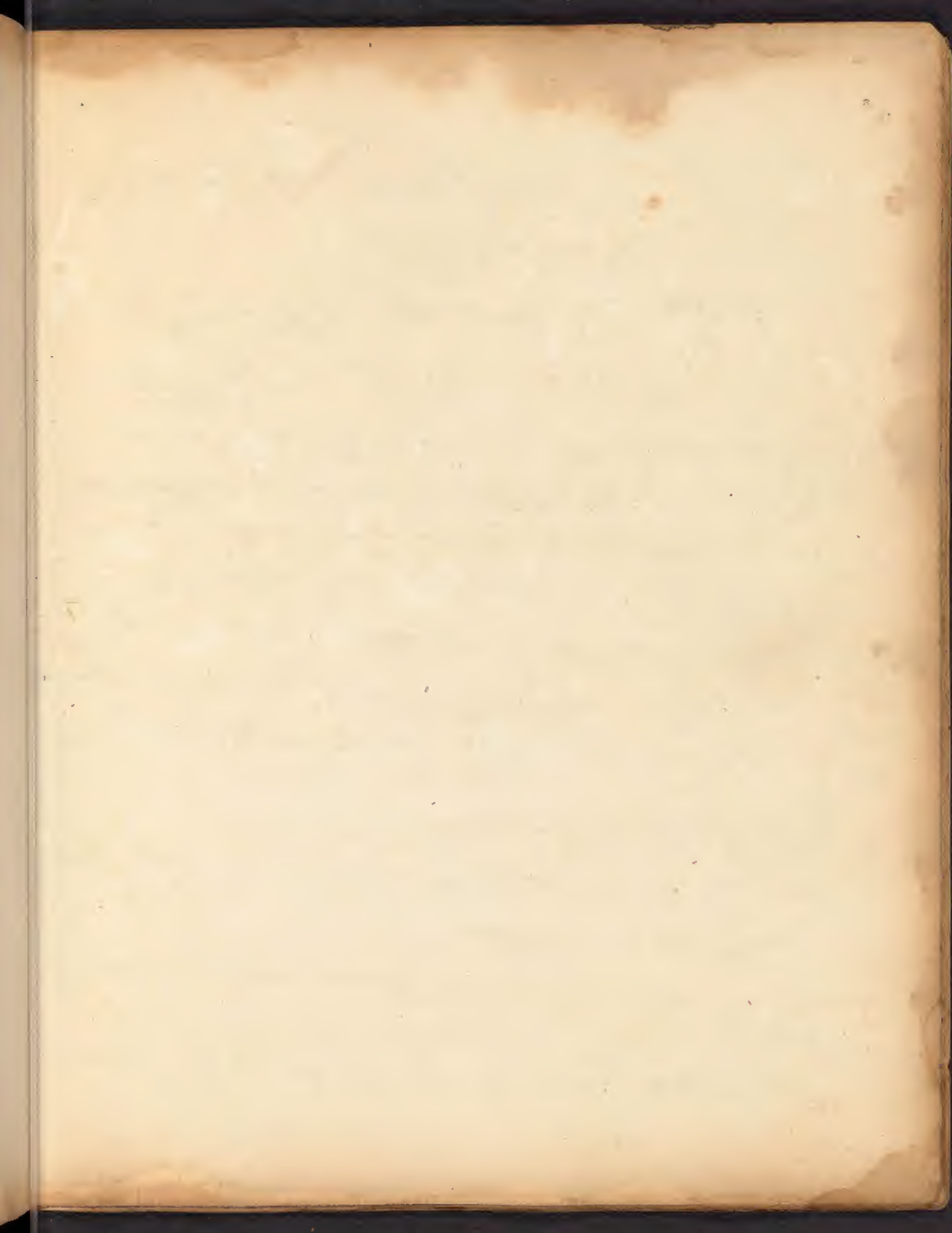
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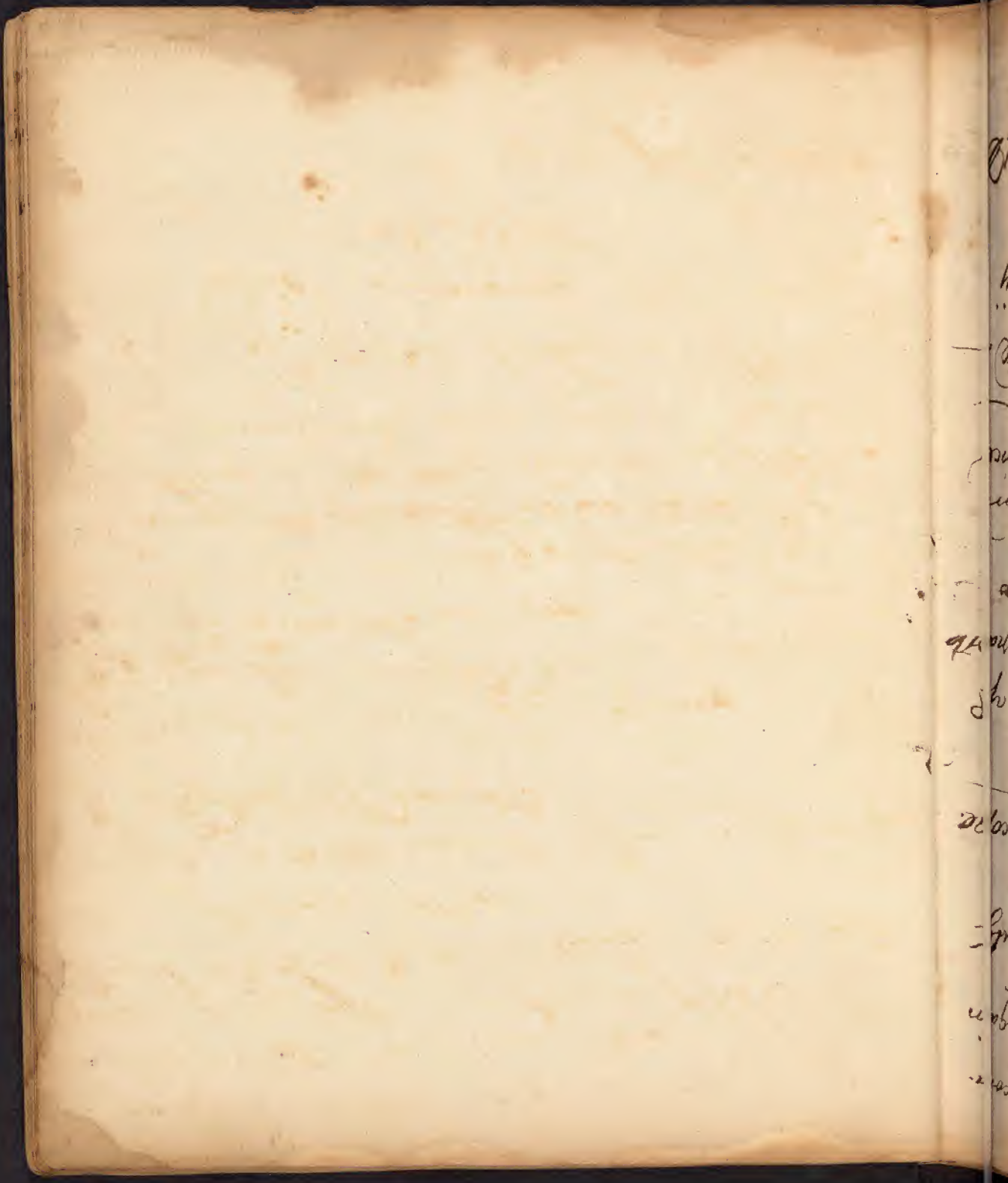
by
the

and
the

and







Improve men as

as the feeling of immorality, let again
in dreams, let reform sleep
the soul's heart, & form the more faculty
forming another

also write more again to symon
& J. P. of all the

Do not sympathize in it
long for nothing - every part
of the body from the nerves - this is
governed by a analogy of plants -

this continues to be the same from
the blood into the brain & thence
communicated over the body -

Five Chymists

to understand chemistry

At 1785

Dr. W. R. M. D.

all given as before formerly
tendency

Lecture 38 - Chemostasis

Prothymus neurotransmitter is secreted in
the brain. It is the first of its kind
The neurotransmitter is not a cause of im-
pression or sensation. They may be
is based on whether or not
increased by exercise. In fact, it is a constant & necessary
by which the nervous system is
when promoted by intense thought
on one subject. It is prevented by agi-
tation from one subject to another.
a want of impression cause of
sleep, producing a loss of sleep
is a very common cause of sleep
of the mind is from great excitement
having the mind in excitement -
hence, we have excessive work

To secure
 it contains, also of women & music
 by agitation & fermenting, but in common
 heat 70 to 100° is requisite.
 Cheese is altered by pressing, drying
 coagulum etc; qualities of milk
 manner of preparation etc -
 old cheese acts as ferment & is used
 by the young & old. etc. in system.
 Domestic milk, containing
 sugar or milk. 3 4 after milk at 10 grains
 burnt in different manner - 6 4
 and kind of cheese cost - 5 4
 milk and 3 4 goats
 these 3 4 sheep
 3 5
 4 9
 Milk in women very little altered
 feeds or increases spirit to affect
 the milk & breeding very different
 coagulate, & thick like cheese
 from milk, it is of the best of
 animals, most nutritious for man & for
 use in common state of food

[illegible]

Lecture 37
 Disformed without inflammation
 & without coagulable lymph -
 that is morbid matter in
 process of organization, and by
 sudden cure by terror, &c. and is to
 any critical evacuation, as by the
 blood & urine in general
 Miasmata may act mechanically
 in disease, but further
 think they are ^{very} conformant and equivalent
 to the & system are the proximate
 cause of that critical evacuation
 are from the vitality of the system and are
 the cause of
 Disposition - great is taken for
 resolution is water & is
 or principle of inflammation
 being weakly formed
 of coagulable water &

Chloroanemia of the blood -
not enter the blood -

Fixed affs. always anathemia in or
urine never theophthalm. as often

as acute -
Anemia of yr. not produce
green color only from not being

colored - not brown normally in yr
blood - Defect act by moving alone

Acute affs. the cor. for
changes & so are all whole body

in fixed affs. -
Anemia of yr. only for yr

in blood. - is produced in yr
the blood is greenish yellow in yr

in yr. anemia of yr. -
Anemia of yr. -

Some reason to thinking our is
Blood in an elastic state -
Changes of the by diseases -
Blood is not perfect or brittle -
viscosity of blood is hard to be proved.

The Circulation

Coagulable lymph is increased & easily
solidified certain elements according to form
Of the blood by disease mostly in the
venous which rather produces some

in all elements
The change in the circulation is
the being like necessary a change
of blood & if commonly ^{in the} the
immediately thrown off by excretion
We thereby infection & contagion
and by heart and arteries means of
nervous system -

These parts are not used by heat
red globules are not properly organized
in contrast, do not mix with other
parts - they are aqueous &
inflamable & have colour in form
the colour, the origin from
ignorant of: a bright shining
action, inflamed. it causes the
red globules to be inflamed & burst
in contrast the serum
coagulated in a transparent
state - only more saline
& coagulated in a solid -
than is of any same in nature
most in inflammatory diseases
despite the coagulation of red
globules & the escape of leucocytes
serum is secreted with ammonia
different parts of blood become
certain portions to each other
time and process of blood
the no more of blood

Act 35.

Books

Enriched history of animals

Commandment not from same station
as the nation in being made

there - they it is by firstborn of man
some say it is by the god of man

of the same
a principle of intelligence
and common sense

by station general principle
all animal food is common

circle of animals in nature
are separated in several from of

in nature, from the
in difference -

and the
Cyclical motion of matter
Earth & water -

of the world - the continents
habitate or water, from the
northward & south, the continents
are equal length & the globe

Must & sugar also improve
with by exciting fermentation
all bones & especially extend to
animal & vegetable to improve
wine Mine is antiseptic
preservative & is not, by
itself, refined by rest, by
allum - by sulphur
it is also produced by stirring
bodies in a state of fermentation
grain in the ground every year
turn (see above last year)
turn three or four times
by adding a gallon or six
gallons of water to a barrel
of good cider & letting it ferment
it may obtain a good vinegar

Drinks from fermentation.

Information eating products

Information (anything) great water

Beer from barley, soaked 3 days

then aged in kegs, but government

then aged in kegs, ground & mixed

water & yeast, mixed or improved

water is fermented left, the head

should be about 10

to present from

fermentation to put it

into bottles as before, with

mixes from days, 20 to 30

off into bottles to ferment - 4 or 5

to be turned up for use.

Milk - Acid is not mixed

best of whey in milk.

mode of preparation & change of

By action of the acid in milk

in fermentation

8 or 10

so improved milk

Great modification of the
to form a new one
of the same kind as the
of the same kind as the

the nutritive formation
of the nutritive formation
of the nutritive formation
of the nutritive formation
of the nutritive formation

Lecture 34

the part of all matters, under
formation are four days
of the nutritive formation
of the nutritive formation
of the nutritive formation

There is a spring near Annapolis
with spring water, it is
an extraordinary quality like fruit
from space out - Hence by
and we may preserve them
from it or from

By these means and by
circulation are they moved
from right to left
columns, and air is also moved
from the vegetable
and for food, from for the
some means for ornamenting
the significant -
only to be distinguished from an-
not sufficient by not contain-
ing water also - they contain oil
from various vegetable sources
which is liable to fermentation
in water and is not suitable
in case, more, fishery, Indian
corn stalks &c.
The vegetable matter in the
leaves and in the stalks of
offices and is produced

for all life - about 3000 years
The new laboratory
to your personal
Make your medicine do most
a profitable as you can without
altering the nature -
The thing of vegetables -
Every plant has rejects like
offspring is: a cause most
with calcium from earth -
They will not grow in heat
above, ammonia not below
82° (except ~~over 82°~~)
too much moisture (with
fresh air & plenty of the
plant has fruit they are
have not rejects like animal
bodies but like nerves
They are fibres as: fibrous
organic mycelia

Lecture 33

In your practice I would advise
you to use few moderate

which completely in your presence
vows for all necessary influences
at rest in themselves what

they may be decomposed, and by un-
king letters & also, Opium &
also change each other
3. The change of compound
and on of body

in two methods of equal strength
the testimony is formed as the
mechanical force form of diagonal

5. My thoughts have appeared in un-
der of moderate use in order to
and I say the method you desire
know the property of your medicine
12 or 18 m. or 10 m. or 10 m. or 10 m.

it renders time wasted money.
 By electricity you may reduce
 the cost of making us: more of
 to be y: improved of infirmity
 it acts as a sedative and
 given by giving y: infirmity
 constant - it is arithmetic
 3. Above are the first 3 points
 4. Improved infirmity is a universal
 5. In ladies nearly all
 its centre of gravity being the
 head of confined in place it
 rises in y: atmosphere
 2. Another principle of balance is
 raised and, as also, in
 the balloon to be y: improved

is particularly useful for

this purpose
Dehydrated air is - turned in fog
light air - water surface air
by removing the phlogiston & it
dissolves in water and air -

fixed air is common in
the State, it is common with us
water is so vapour - it is at a
and united to inflammability -
it extinguishes flames & prevents
freedom of defluve to animals -
is found in alkali; alkalis
in wells alkali mine & steam
from on its surface of earth & it
dephlog. flame -
it is produced by fire, the system
absorbing with air -
produced by the breath of man
obtained from a fermenting body
wine cellars &c. -

in water, mostly neutral taste -
and are fixed - & common

Lecture 32

What are belongs to medicine
at Philosophy, the mixed kind of
Theories of Physics, and all bodies
Allegorical is to and with
applied philosophy - the origin of
truths animal & vegetable

matter -
principles of immortality
Heavenly rays

Depositions are in our
of its origin & in more proper

to breathe in, for by breathing
we know the immortality into
it - The general of vegetables
of things philosophy, hence their
falsity of not to think as
the origin of things

alk are known also to be in water
 by a blue which it appears to be
 copper carbonate known by its
 colour; alkali - cer. ful. mag. green by
 decomposition in water -
 sulphate, are known by
 metallic - cer. & copper found in water
 decomposable in water by fixed air
 & even in simple water
 to form carbonate by an infusion
 of alkali carbonate by which it goes long
 yellow in the of decomposition to copper approx-
 imately. A solution of alkali in water
 by a solution of alkali in water
 alkali. By adding alkali we have
 an alkali of earth from it
 alkali by the same in carbonate -

green blue & white which found
 in water known as their respective
 metallic. By changing blue to white
 without

Dec 18 31

Water is a most body

ing earth. Hence the ancient philosophers
from the heating of water -
it is reproduced from truthifying subject
and is common and mineral water
water is common and mineral water

Common rain dew, Acid snow frost,
twee well, and spring water, common
water, is rain appears fully
only from the fountains of vegetable.

red appearance of sea water (mineral
red sea is from the colour of the
water, agitated by the action of the
Mineral Water are in the form of
acid, which may be distinguished by
known by taste, by smell, and by colour

colour of the water - they contain
of the water is alkaline

water is green colour of the water
decomposes at common
water is common

The caffeine they may be reduced
 by a small heat alone. It is
 very difficult to separate the caffeine
 from the oil. But not than
 good by fire, turning nitric acid
 of potassium nitrate with more acid.
 by distilling it, it changes form
 animal fat. The caffeine
 by evaporating, it is changed
 to a solid mass. (dura comes)
 of caffeine in the form of a
 medicinal substance. (dura comes)
 may be found in America
 may be used.

Lecture 30

under mineral acid by distillation
correct sublimate

strongly acted on by acetic acid & forma
rally by distillation leaves concentrated
greatly imitated got as much lactate

are copper & zinc -

Copper is known by the change of
color by blue color of solution & by mix
ing copper ore with nitric acid when
a blue colour is obtained

In life mostly moved by the action of
water made of 19 grains
ammonia in the body

of silver and gold make
analog, they exceeding in the same
19. silver may be beat out by distillation
& 2 inches breadth -

Indurated most violent heat
which affords white fumes of set

on ym -

in former cases are, even in late
of an. equally - previous than the
is universalized in fish. As
and we have seen in fish
ability & imagination -
It is harmony - in substance
it forms which by accident of the
for water & relation of the
It is only may be given, but un-
less necessity requires, female
sex and both

Dec. 29. 1811

I suppose malleable & malleable
inflammation, mostly heat, not
easily calmed, great attraction
to act, with the vit. acids & forms
blue vitriol

Lecture 28 -

Iron is soluble in water, it is colored by
acid, has a reaction to astringent;
it is precipitated by - H₂SO₄, (strong),
also astringent acid, from astringent

vegetables - such become astringent
by further action of vegetable acids
R. for ink, M. for astringent, R. for 3/4 of a pint

1. Logwood & Hop Water -
Pale ink, the astringent made
by the root & vegetable gums combined
from an ink -

Black ink beyond on green
with astringent & astringent
Annual Substances the only subject
table of black color

Crig - the above forms contain
found in each in
different parts

[illegible]

Dec. 27.

In acids ^{the} are by acids even y^e
vegetable, have great attraction ^{to} ferme.

In acids and glass & calc of tin -

tin not being in calc.

In & lead calcined & mixed wth a s^l form

quartz -

In lead & bismuth amalgamate by

then, strongly distinguished property is
attraction of magnets.

Iron in water acid - the particles

of iron are attracted by the magnet.

Iron, for. mag. are obtained

all vegetable acids attract it

Dehaaf is calc of iron & y^e acid
obtained by iron. Iron calc by
the magnetic acid.

Form in Baron and other
places
N. 10. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

with movements in

and very quiet, great 11 to 1-1/2 day head

it and the localities of the 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th.

is it fairly well, the cases are used

cases reduced by wisdom from fresh

negotiation. Government &c.

nothing is weaker, action is made light

by the. Justice, or the frame of it.

Form in more in all countries

Large 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

make the company their which is

called Doctor. (Received. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.)

It unites with metals,
is in it some particles, and
is copious large, by adding heat
and decomposing them —
Bismuth with softening hand
with lead, gravel to some extent
as lead in a gentle heat
The Nitrous Acid
dissolves it in
fumes

Bismuth dissolves in Nitric Acid forming
Bismuth Nitrate. In the
case of Bismuth Nitrate for example
it unites with sulphur, with metals,
except iron & Cobalt.

Cobalt dissolves in grey sulphur
in the & all mineral acids
and most of the sulphurated acids
is formed by a digestive in acids

of neutral, where action is

over of authority, & forms various

metal, if a quaternary and used, all is

resistant, and the quantity of the

used in the preparation of the water

series - all the metal action is

inside authority only act as a result

and the best preparation of action

Advised 26

Yours. John White

former director, full time by the

Mr. and director of the district

of the authority and the

and the action

there by the action of the

of the authority and the

thereby the action of the

with you as before mentioned

preparation of mercur. an. for injection
decoloration. & infusion

mercury has a great attraction to sulfur
ability - mercur. & sulfur, by their
& combination - mercur. & sulfur
but here, sulfur & mercur. are

Rec. 25

Mercury may be reduced by cold.

Argem. found some time since, generally
common. sulfur, sometimes with lead or

mercur. sulfur, & sometimes
mercur. & sulfur, & sometimes with lead or
mercur. & sulfur, & sometimes with lead or

mercur. & sulfur, & sometimes with lead or
mercur. & sulfur, & sometimes with lead or
mercur. & sulfur, & sometimes with lead or

Metals are perfect or imperfect
simple or derivate - (see
Appendix)
Dermatite - Chloasma has
been much wrought upon, ^{to water the} ~~from~~
dermatitis, much changed by
friction alone, both & evaporating
heat, by small heat it is called
nitric acid ^(acid. min.) dyschromia
nitric acid dyschromia equal with
acid's drop with that ammonia
1/3 measure of water acid
evaporates in dry air -
It is precipitated from acid by alkali
Mucous acid makes not salt
of mercury & is especially insoluble

death of metal

Alloying metallic ferrous metals

from all other substances, by means

of force 2. by heat, 3. by heat &

mixture - these are in mixture

which are also used to separate

out from each other - these are also

used in the use of iron & steel

at which the use of iron & steel

is an alloy - these are also used

in the use of iron & steel

by the use of iron & steel

also are used -

one metal is sometimes

to be used in the use of iron & steel

foreign matter, or from the use of iron & steel

Infused heat, by small heat
 it is furnished in the parts
 with a good & strong
 we know common with some
 conditions lead to most metals
 it has strong attractive in its affinity
 change color in metals white
 granular copper —
 Properties of hydrogen, dis-
 solve three times its weight of water
 The basis of Dr. Martin's pow-
 der is oxygen combined with
 a very acid spirit, red —
 In local concentration of oxygen
 it may be used with safety
 Oxygen — being combined with
 or merely, of hydrogen by substance —
 from

The difference between the two is
inflammation & suppuration are
by communicating inflammation
to the cavity. It is not the same
as inflammation, which is the
metal is not with the cavity
acid and ~~inflammation~~ by heat, after
Nylon. in. 45
fuse metal by communicating heat
& fusing it with lead in a metal
retractor fuse in — They have
a small attractive inflame in metal
after state but it is cases with
readily with inflammability.
most metal into together
metal is contained, is not to be
Anger — Some inflammations
with mostly communicating
other metal, with inflammation
in communicating with lead

Section 22.

This was just a repetition of
the 27. the head of the 28. the 28. these
years, the only new observation
who that lamb back is a foot
obtained by burning pyramus
substances -

Sec. 23. Metals -

metals are a heterogeneous
not false, not uniform, nor
electricity, great specific gravity
the metal is different degrees
of heat. they are the most impure
with an earth or cake of matter
some emit light with heat some
no light: by calcination, they emit
light, mostly from the escape of im-
purities, which is called by acids

Drop in water & then by applying can-

etc. of burn - Capite in a foale

Others in milk honey; insames like

Others - infuse in water

Angin begun f.v. and put in w.h. oil

Others together w. oil in Capite

Aug. Caud. stuff. is now left off for others

withdrew attractio. from f.v. in

to get at liberty the

by the way, or just in commoning

by adding f.v. in. to withdraw it so much

Others may be obtained

if thus mixed a man in Germany

took a pint of others & 100 gr. Gum. even

of water some months, which the powder

veget. and English together made

being again distilled in water.

in water made honey by fixed salt

or attractio. water & gum. very action

have of spiritus flammæ, only the flowers

is polished in champagne, Job or Alice

face. by Communion. & inflammabilis

to the end of

& No. 1 all metals, only got
partially gone - It is infusible
in water - It is called of fusible
It is pure or compound or Dross
It is sulphuric & metallic
arsenic - a kind is pyrites -
a Margueriteanaa species of pyrites -
Chalcocite contains sulphur -

Lecture 2. r. inflammable -

Chalcocite contains small by burnt
it loses its air, this is flagrant, it is
a kind of weight from burning
it is increased by weight from burning

And it is obtained by distilling it from
burn oil into inflammable acid.
When it is converted into water
all the inflammable heat is lost & heat of
body is generated by oxidation
of very inflammable

[illegible]

passer is a white-cent.

Quartz, fusible from pure
strong alkali (as are rubies, emeralds,
sapphire, amethyst, topaz, garnet,
also, staphyllite &c.)
Dissolutions are white-cent.

Dec 20. - Argonous barite
Albister used for cell.

Chalken when a mild speciation
Alum when used in hair eyes; Denon
Alumina used internally.

Sanguis dracon. & lat. ammoniac
are without efficacy to flame, being
continued to burn wth flame heat

It is: I cannot be separated from
them, those are considered into heat
get vapour & is vapour

flame is vapour & is of a conical
form - that is inflammability
combined

Mosaic words is made of very
minute pieces of different of
act in a style of hyperbole. Every
other substance
No influence act on it.
Doric law of white sent & clay
made like our leather ware
think earthy life by ~~water~~ ^{earth} are
sand, rock, stone, plate (is is not)
acid is carbon, flint, & agate
corrosion only, & are of the
kind, they are often marked
with different ^{is} as children, as is
not owing to imagination of mind
vegetable & animal & human
irregularly marked in the
manner they are made
in the nature

proper in a condition of being given

heavily in a considerable state of
inflammation, gave a good and decided
effect from a single dose of
hygieine earths & salts and of salts

form a strong mass - they are
more, of the same nature as the
a vertebrae w. calcareous earth
considered first considered in the lungs
require those who work in it -
lungs - the formed by nature in life -
best forms -

they are soft and malleable when they
get hard by fire - not without
and they form a mass of change
by fire, becoming gradually - the
from a soft and malleable
it purifies water by affusing
of earthy matters - it will refine
when in the manner

Phosphate resembles water
in form in mine & covers of mountains

Chalk is a vegetable formation

by calcareous earth, wood, & gives
form to earth -

in like manner - common in
as bones, shells &c.

Human excrement & bones contain
are calcareous substances

Human excrement, from coagulable lymph
forms in the form of some cases

Magnesia made now from Epsom
salt by adding a little alkali

which is mixed with a little oil
by burning it & depriving it of acid

It is much improved in nature
Calc. earth, most valuable for use

in medicines & distillations of the viscera
lime water in cutaneous eruptions

Some & estimate them -

The different effluents are
long flowing, marble made
from phosphate of lime
effluents, calcareous
effluents, magnesic effluents.
Act 18.
in inland countries -
dinner in great quantity - (Coch)
is found nearly near there -
made not with acid forms of elements
& others, the acid units, at the day -
Marble is found in the state of
with acid of phosphate - it contains
iron. The effluents afford white
marble there is also mixed and figures
of off forms -
There are in chrysolite forms

And here, I have written what
narrative I could & as yet, all is
that there is some & day
Matter is here & some who in build
some more or less, I fear of most of
I wish I were in the world with all
adding a staff, as I have it to it
my fine state by my self, I have
The liquid shell of the horn is
equal to some water, by water
infused 16 gr. I have it before in
and by looking, I have been
concocted by exposure to air —
used in purifying organs & skin
by one blood — The first digestion
is done in a warm
some acts powerfully on all
annals & substances

Useful for many other good purposes in
which -

Just what is a gentle purgative
which is necessary in a weak inactive
moderate diet and given in sufficient
doses is an infallible - food, airy.

all - they lay in large quantities in
the atmosphere of my & other
introduced last year & the hygroscopic
too these almost were mentioned -

December 17 - for the air is so abundant
hygroscopic, thin, pure & earthy
As the air is so abundant in the atmosphere
line some other points - etc -

time of the year is changing very much
becomes active by exertion of force
and the movement of the air & water
at the stage - that is common to the

Pharmacology of neuritis - They

have been very much effected by
neurotic to

consider that the body is an animal
not a chemical vessel - they is to be

going, in the way of a vegetable,

in its own large case of a young

useful in many of its organs &

of the same - They had in the

shown by a large quantity of them -

in the way of a vegetable, the same

to prevent it from causing of the same

than. It is in the way of a vegetable

34. Essential. It is the best

pharmacology of neuritis - They

And in the way of a vegetable, it is to be

pharmacology of neuritis - They

pharmacology of neuritis - They

pharmacology of neuritis - They

[illegible]

That
 Ammoniac is decomposed by
 Evaporation from which ammonia is
 left. Also, it forms ammoniac. It is
 a substance which is decomposed by
 water into ammonia and carbonic
 acid. The ammonia and
 carbonic acid are
 necessary to the life of plants.
 The ammonia is
 generated in its solution in water
 and the carbonic
 acid is very abundant.
 It has been found
 sometimes, generally artificial
 from cost, and especially of dung
 by the process of a manufactory in
 which it is lately erected where
 it is made in considerable quantities
 there



